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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:  
**Shneiderman, B**

Appl. No. 09/972,362

Filed: October 15, 2001

For: **Methods for the Electronic  
Annotation, Retrieval and Use of  
Digital Images**

Art Unit:

Examiner:

Atty. Docket: 7512.110

**Information Disclosure Statement  
Pursuant to 37 C.F.R. § 1.97(b)(1)**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

This Information Disclosure Statements is being submitted prior to an Initial Office Action. No fee is accordingly believed due for consideration of this Information Disclosure Statement. However, if the Commissioner determines that an additional fee is required in for consideration of this Information Disclosure Statement, the U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or

credit any overpayment, to Deposit Account No. 50-0548 referencing docket number  
3503.101.

AA1	5,142,662	25 Aug 1992	Gump et al.
AB1	5,404,435	4 Apr 1995	Rosenbaum
AC1	5,493,677	20 Feb 1996	Balogh et al.
AD1	5,579,471	26 Nov 1996	Barber et al.
AE1	5,640,553	17 Jun 1997	Schultz
AF1	5,689,717	18 Nov 1997	Pritt
AA2	5,751,286	12 May 1998	Barber et al.
AB3	5,757,466	26 May 1998	Lee et al.
AC3	5,845,288	1 Dec 1998	Syeda-Mahmood
AD2	5,873,080	16 Feb 1999	Coden et al.
AE2	5,899,999	4 May 1999	De Bonet
AF2	5,911,139	8 Jun 1999	Jain et al.
AA3	6,014,581	11 Jan 2000	Whayne
AB3	6,111,586	29 Aug 2000	Ikeda et al.
AC3	6,112,215	29 Aug 2000	Kaply
AD3	6,154,755	28 Nov 2000	Dellert et al.
AE3	6,172,676	9 Jan 2001	Wood
AL1	WO00046695A1	10 Aug 2000	PCT
AM1	EP00938227A2	6 Sep 2000	EPO
AN1	EP01006464A2	7 Jun 2000	EPO
AR1	(PhotoFinder 2.2 software developed by Dr. Ben A. Shneiderman ( <a href="http://www.cs.umd.edu/hcil/photolib/">http://www.cs.umd.edu/hcil/photolib/</a> ))		
AS1	Allan Kuchinsky, Celine Perin, Michael L. Creech, Dennis Freeze, Bill Serra, Jacek Gwizdka, "FotoFile: A Consumer Multimedia Organization and Retrieval System", <i>Proceedings of ACM CHI99 Conference on Human Factors in Computing Systems</i> , 496-503, 1999).		
AT1	Ben A. Shneiderman, "User Interfaces for Photo Libraries: Facilitating Web-based Story Telling with Annotations and Captions," <a href="http://www.cs.umd.edu/users/ben/">http://www.cs.umd.edu/users/ben/</a>		
AR2	Ben Shneiderman et al. , Direct Annotation: A Drag-and-Drop Strategy for Labeling Photos (2000)		
AS2	Bill N. Schilit, Gene Golovchinsky, and Morgan N. Price, "Beyond Paper: Supporting Active Reading with Free Form Digital Ink Annotations," <i>Proceedings of ACM CHI 98 Conference on Human Factors in Computing Systems</i> , v.1 249-256, 1998		
AT2	Chang, S.-F. et al. (1997), "Visual Information Retrieval from Large Distributed On-line Repositories," <a href="http://citeseer.nj.nec.com/chang97visual.html">http://citeseer.nj.nec.com/chang97visual.html</a> )		
AR3	E. Imhof, "Positioning Names on Maps", <i>The American Cartographer</i> , 2, 128-144, 1975;		
AS3	Internet cite <a href="http://chaos1.hypermart.net/egypt/tae.html">http://chaos1.hypermart.net/egypt/tae.html</a>		
AT3	J. Christensen, J. Marks, and S. Shieber, "An Empirical Study Of Algorithms For Point-Feature Label Placement", <i>ACM Transactions on Graphics</i> 14, 3, 203-232, 1995		
AR4	J. S. Doerschler and H. Freeman, "A Rule-Based System For Dense-Map Name Placement", <i>Communications Of The ACM</i> 35, 1, 68-79, 1992		
AS4	J. Stewart, B. B. Bederson, & A. Druin, "Single Display Groupware: A Model for Co-Present Collaboration.", <i>Proceedings of ACM CHI99 Conference on Human Factors in Computing Systems</i> , 286-293, 1999		

- AT4 Jean-Daniel Fekete Catherine Plaisant, "Excentric Labeling: Dynamic Neighborhood Labeling for Data Visualization," *Proceedings of ACM CHI99 Conference on Human Factors in Computing Systems*, 512-519, 1999
- AR5 Jia Li., Catherine Plaisant, Ben Shneiderman, "Data Object and Label Placement for Information Abundant Visualizations" Workshop on New Paradigms in Information Visualization and Manipulation (NPIV'98), ACM, New York, 41-48, 1998
- AS5 John Lamping, Ramana Rao, and Peter Pirolli, "A Focus + Context Technique Based On Hyperbolic Geometry For Visualizing Large Hierarchies", *Proceedings of ACM CHI95 Conference on Human Factors in Computing Systems*, New York, 401-408, 1995
- AT5 John Unsworth, "11.0661 Image Annotation Software, 1998
- AR6 R. Chellappa, C.L. Wilson and S. Sirohey, "Human and Machine Recognition of Faces: A Survey" *Proceedings of the IEEE*, Vol. 83, pp. 705-740, May 1995
- AS6 Rohini K. Srihari, "Use of Multimedia Input in Automated Image Annotation and Content-Based Retrieval (1995)
- AT6 Rui, *et al.* (1999); "Image Retrieval: *Current Techniques Promising Directions and Open Issues*," <http://citeseer.nj.nec.com/384715.html>),
- AR7 Smith, J.R. *et al.*, "Tools and Techniques for Color Image Retrieval, IS&T/SPIE Proceedings Vol. 2670, Storage & Retrieval for Image databases IV (1995)
- AS7 VisualSEEk Computer Program developed by Dr. John R. Smith, Columbia University (<http://www.ctr.columbia.edu/~jrsmith/html/pubs/acmmm96/acm.html>)
- AT7 GIADAscan internet printout (1996)
- AR8 FAO Photofile Archive

The submission of the listed and appended documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

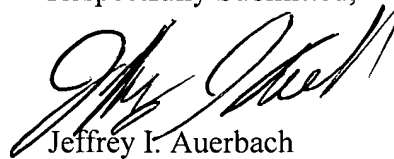
Applicants respectfully request that the documents listed on the accompanying Form PTO 1449 be considered and made of record in the present application. Applicants further request that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

While the listed references are considered relevant to the prosecution of the present application, it is submitted that the references, either alone or in combination, do not detract from the patentability of the claimed invention.

Date: Jan 3, 2002

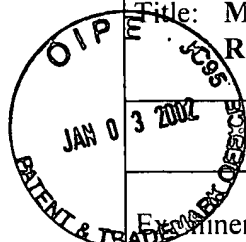
Liniak, Berenato, Longacre & White, LLC  
6550 Rock Spring Drive, Suite 240  
Bethesda, MD 20817  
Telephone: (301) 896-0600  
Facsimile: (301) 896-0607

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Jeffrey I. Auerbach", is written over the typed name.

Jeffrey I. Auerbach  
Reg. No. 32,680  
Attorney for Applicants

PTO 1449				Page 2 of 2			
INFORMATION DISCLOSURE STATEMENT				Atty Dkt: 07512.110		Serial No. 09/976,362	
Title: <b>Methods for the Electronic Annotation, Retrieval and Use of Digital Images</b>				Applicant: <b>Shneiderman, B.A.</b>			
				Filing Date: <b>October 15, 2001</b>		Group	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner's Initial	Patent Number	Date	Name	Class	Sub- Class	Filing Date	
	AA2	5,751,286	12 May 1998	Barber et al.	345	348	24 Jan 1997
	AB3	5,757,466	26 May 1998	Lee et al.	355	39	30 Jan 1996
	AC3	5,845,288	1 Dec 1998	Syeda-Mahmood	707	102	11 Dec 1995
	AD2	5,873,080	16 Feb 1999	Coden et al.	707	3	26 Mar 1997
	AE2	5,899,999	4 May 1999	De Bonet	707	104	16 Oct 1996
	AF2	5,911,139	8 Jun 1999	Jain et al.	707	3	28 Mar 1997
	AA3	6,014,581	11 Jan 2000	Whayne	600	523	26 Mar 1998
	AB3	6,111,586	29 Aug 2000	Ikeda et al.	345	433	19 Feb 1997
	AC3	6,112,215	29 Aug 2000	Kaply	707	507	24 Sep 1998
	AD3	6,154,755	28 Nov 2000	Dellert et al.	707	526	31 Jul 1996
	AE3	6,172,676	9 Jan 2001	Wood	345	346	17 Jul 1998
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Date	Country	Class	Sub- Class	Translation Yes/No
<b>OTHERS, including Author, Title, Date, Pertinent Pages, etc.</b>							
	AR5	Jia Li., Catherine Plaisant, Ben Shneiderman, "Data Object and Label Placement for Information Abundant Visualizations" Workshop on New Paradigms in Information Visualization and Manipulation (NPIV'98), ACM, New York, 41-48, 1998					
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	AT7	GIADAScan internet printout (1996)					
	AR8	FAO Photofile Archive					
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OIP  
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	AA1	5,142,662	25 Aug 1992	Gump et al.	395	100	25 Aug 1992
	AB1	5,404,435	4 Apr 1995	Rosenbaum	395	147	2 Feb 1994
	AC1	5,493,677	20 Feb 1996	Balogh et al.	395	600	8 Jun 1994
	AD1	5,579,471	26 Nov 1996	Barber et al.	395	326	23 Mar 1994
	AE1	5,640,553	17 Jun 1997	Schultz	395	605	15 Sep 1995
	AF1	5,689,717	18 Nov 1997	Pritt	395	773	7 Feb 1996

FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No	
	AL1	WO00046695A1	10 Aug 2000	PCT	G06F	17/30	
	AM1	EP00938227A2	6 Sep 2000	EPO	H04N	1/21	
	AN1	EP01006464A2	7 Jun 2000	EPO	G06F	17/30	

OTHERS, including Author, Title, Date, Pertinent Pages, etc.		
AR1	(PhotoFinder 2.2 software developed by Dr. Ben A. Shneiderman ( <a href="http://www.cs.umd.edu/hcil/photolib/">http://www.cs.umd.edu/hcil/photolib/</a> ))	
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